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In re Application of Frederick J. Oko Jr. and Qiyue Sun

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For: **SYSTEM AND METHOD FOR INFLUENCING DYNAMIC COMMUNITY  
SHARED ELEMENTS OF AUDIO, VIDEO, AND TEXT PROGRAMMING VIA  
A POLLING SYSTEM**

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Washington, D.C. 20231

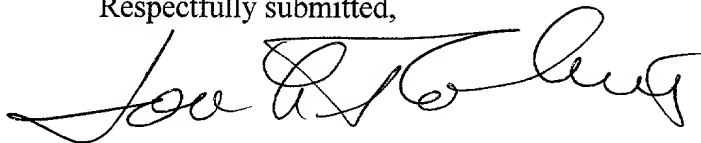
Dear Sir:

Enclosed please find the following:

1. Specification, abstract and claims (23 pages);
2. Informal drawings (5 figures, 5 sheets);
3. Declaration and Power of Attorney;
4. Assignment with Recordation Sheet;
5. One check in the amount of \$876.00; and,
6. Certificate of Express mailing.

The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to Deposit Account No. 18-1579. The Commissioner is also authorized to charge Deposit Account No. 18-1579 for any future fees connected in any way to this application. Two copies of this letter are enclosed.

Respectfully submitted,



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I hereby certify that the patent application of Frederick J. Oko Jr. and Qiyue Sun for a **SYSTEM AND METHOD FOR INFLUENCING DYNAMIC COMMUNITY SHARED ELEMENTS OF AUDIO, VIDEO, AND TEXT PROGRAMMING VIA A POLLING SYSTEM** including the specification, abstract, and claims (2 independent, 25 dependent, 27 total)(23 pages); informal drawings (5 figures, 5 sheets); declaration and power of attorney; an assignment together with a recordation cover sheet; and a check in the amount of \$876.00, are being deposited with the United States Postal Service for "Express Mail" service under 37 C.F.R. ' 1.10 on the date indicated above and are addressed to the Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.



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**Title:** System and Method for Influencing Dynamic Community Shared Elements of  
Audio, Video, and Text Programming Via A Polling System

**Inventors:** Frederick J. Oko, Jr. and Qiyue Sun

**Field of the Invention**

This invention relates generally to dynamic creation of video programming. More particularly, the present invention comprises a system and method for allowing a community of individuals to influence the outcome of video programs.

**Background of the Invention**

The Internet has lead many computer users to desire a highly interactive environment. This has spilled over into the cable environment as well where interactive set top boxes have begun to appear. This type of interaction enhances the experience of the viewer and makes such viewing more pleasurable.

Interaction of viewers with programming has been the subject of various developments. For example, U.S. Patent No. 5,737,527 to Shiels, et al., assigned to U.S. Phillips Corporation, (the '527 patent) describes branch-structured narrative entertainment. It includes both standalone entertainment devices as well as broadcast and subscription services. The narrative branches to different story line paths based upon viewer responses to prompts.

Patent 5,737,527 describe the ability of a viewer to vote on the direction of a broadcast. U.S. Patent No. 5,848,934 to Shiels, et al. (the '934 patent) describes a branch-structured narrative entertainment. The narrative branches to different story line paths based upon "modified attribute values."

World IPO Patent No. WO 94/13105 and U.S. Patent 5,465,384 to Bejan, et al. describe an interactive system in which the audience influences the outcome of a program.

U.S. Patent No. 4,305,131 to Best. (the '131 patent) describes an interactive entertainment system incorporating a speech recognition system in which the viewer is treated as a character in the narrative of a motion picture.

U.S. Patent No. 4,569,026 to Best (the '026 patent) is a Continuation in Part (CIP) of U.S. Patent No. 4,305,131 to Best. The '026 patent describes an interactive entertainment system

1 incorporating a speech recognition system in which the viewer is treated as a character in an  
2 interactive video game story. At branch points in the picture, the viewer makes voice responses  
3 to audio questions (or asks questions).

4 U.S. Patent No. 4,974,252 to Osborne (the '252 patent) describes a  
5 commercial/entertainment network for interactive communications between separate theatres and  
6 a remote broadcast center in a fashion to reduce required interconnecting bandwidth while still  
7 providing near real time updates of polling results to viewers..

8 U.S. Patent No. 4,591,247 to Freeman (the '248 patent) describes a movie changeover  
9 system capable of providing real time decision tree movie presentations. Movie content depends  
10 on viewer response to branching choices.

11 U.S. Patent No. 5,795,228 to Trumbull, et al. (the '228 patent) describes a system for  
12 interactive-computer shows that are directed by individual users through a networked  
13 entertainment system.

14 Interactive Entertainment Article by William Homer Hilf describes branching narrative  
15 movies shown to viewers who can "vote" for various outcomes using buttons attached to their  
16 theatre seats.

17 These references all indicate the desire of viewers and program decision makers  
18 to have viewers involved in the programming process.

19 As previously noted, network user interaction in the audio, video, and media (collectively  
20 referred to herein as "content") marketplace generally is increasing. Using the Internet as but  
21 one example, currently network users can select the types of news which the particular network  
22 user may wish to see. Systems such as Pointcast and Yahoo all allow the configuration of news  
23 articles for a particular network user. Similarly, communities of individuals can provide  
24 guidance concerning the development of episodes in a television show. For purposes of this  
25 invention a "community" is a collection of people having access to the same point of view or  
26 potentially different points of view of the same media asset or interactive environment. These  
27 media assets are being referred to as "shared elements." This type of interaction is exemplified  
28

1 in itsyourmovie.com. Indeed, on Broadway, certain plays and musicals have allowed the  
2 audience to select who would be the villain or what would be the outcome of a particular play.

3 Such flexibility has not typically been available over cable television networks or other  
4 interactive community or broadcast type networks.

5 What is therefore desired is a system and method for allowing a community of  
6 participants on a network be it audio, video or text based interaction, (collectively network users)  
7 network users to be able to influence the programming on the network in real time or near real  
8 time.

### 9 **Summary of the Invention**

10 It is therefore an objective of the present invention to allow network users to have their  
11 opinions counted toward the outcome of broadcast content on a network.

12 It is yet another objective of the present invention to allow network users to vote via an  
13 interactive mechanism to affect the outcome of a broadcast program.

14 It is yet another objective of the present invention to provide for a revenue stream for a  
15 system operator based upon a “pay to vote” system.

16 It is still another objective of the present invention to allow network users network users  
17 to purchase voting “tokens” of different values indicative of the weight of the vote to be used by  
18 network users in influencing the outcome of a particular broadcast. It is a further objective of the  
19 present invention to provide a synchronized poll with every broadcast to allow network users at  
20 any given point in the broadcast to influence the next video segment in a broadcast.

21 These and other objectives of the present invention will become apparent to those skilled  
22 in the art from a review of the specification and detailed description that follows.

1 The present invention allows for a community of network users on a broadcast system to  
2 affect the outcome of content that is broadcast on the system. Such network users can be, for  
3 instance, listeners to an audio broadcast, network users of a video broadcast, those using wireless  
4 fixed and handheld devices and participants in a chat session on the Internet. All such  
5 individuals are referred to herein as "network users." Similarly the term "broadcast center" as  
6 used herein means the central location from which the audio, video text or on-line interactive  
7 session originates. Through interactive means available such as a set top box or, when video  
8 content is broadcast via PCs, interaction can take place via the PC interface that network users  
9 can notify the broadcast service of their desires for a particular program or the outcome of that  
10 program.

11 Using the broadcast interface, network users can cast votes which are then transmitted to  
12 the broadcast center as to how the network users desire a particular broadcast program to go. For  
13 example, a community of network users may desire to have a particular type of ending (sad or  
14 happy) to occur for a particular broadcast. In the event of a program that is broadcasting an  
15 interview, network users may wish a particular interview to continue for a longer period of time,  
16 or truncate a particular interview and move on to a new topic. These and other types of  
17 outcomes will be discussed below. Of most importance to the present invention is the ability of a  
18 community of network users to influence the direction of a particular broadcast.

19 Using the present invention, a network user registers with the broadcast system, be it a  
20 cable TV system or other type of broadcast system in a normal fashion. The network user is  
21 offered the ability to purchase vote tokens which are charged to the network users account. For  
22 example, each token may be worth fifty cents. Alternatively, the network user can purchase  
23 tokens which are worth multiple votes, for example, a ten-vote token for five dollars. Further, a

1 network user can pay for various levels of network user interaction. For example, a network user  
2 may be a normal network user, a “gold” network user, or a “platinum” network user with each  
3 different level of network user having different weights for the vote for each network user. The  
4 network user would pay an additional premium for having an increased weight associated with  
5 the network user vote. All network users in the same class may start with a fixed set of tokens  
6 upon initiation of service subscription or at the beginning of a particular program.

7 During the course of a particular program, network users are offered the opportunity to  
8 influence the direction of a broadcast by virtue of periodic polls of network users being offered.  
9 Thus, during the course of a program or at a commercial break, individual network users are  
10 offered the opportunity to cast a vote regarding how the network users would like the program to  
11 proceed. All the votes are counted and, in a typical case, the majority of votes or the distribution  
12 of votes based on an algorithm will dictate the direction in which the program will proceed.  
13 Results of the vote count are presented to all the network users so that they can understand why  
14 the program is moving in the direction that it is. Thereafter, the program proceeds in the  
15 direction that is voted by the majority of the network users. The real time feedback of voting  
16 status can also be provided to allow users to decide if they want to vote more or higher value  
17 tokens to potentially control the outcome towards their preference. Additionally the feedback of  
18 community voting status may be masked from the community for applications desiring blind  
19 voting.

20 Thus, the outcome of any particular vote is shared amongst all the members of the  
21 community, rather than having a single network user select how a particular program is to be  
22 presented to that single network user. Thus, a shared experience is created in the broadcast

1 media. In short, the present invention is a subscription type, token-based service that allows for  
2 the voting of individual network users to have an influence over the direction of broadcast media.

3 The present invention offers a number of advantages. For the network user, an  
4 opportunity to influence the path of broadcast media is presented. A community of network  
5 users can vote on the direction desired and the broadcast content will follow that path. The vote  
6 associated with the path will be presented to all network users so that a sense of community can  
7 be developed.

8 For content producers, such a system offers the enhancement and encouragement of  
9 network users to view a particular program a number of times. Since the replay of a particular  
10 broadcast can vary each time that broadcast is made, producers of the broadcast can look forward  
11 to increased network users participation even at replays. Since the end result is different,  
12 network users will be drawn to view particular broadcasts more than one time. Content  
13 providers can also increase network user participation by allowing the polls to discover all  
14 possible paths and sequences through the content resulting in some rare paths being under great  
15 demand by a set of network users.

16 For live programs, producers of such a live program can have network user interaction in  
17 a more effective way. Thus, if a particular interviewer is conducting an interview that does not  
18 hold network user interest, rather than the network users leaving the broadcast entirely the  
19 network users can influence the broadcast, notify the producer that a particular interview should  
20 end, and that the subject matter should change. Thus, network users are more likely to stay with  
21 a particular program since they can, in part, control the content and thus, ratings for the particular  
22 program will increase.



Certain network users can pay to have a greater influence on the outcome, thus enhancing their experience and providing additional revenue to the system provider. Since the service is a pay service, one person cannot vote more than one time unless the person pays for each vote.

The system and method of the present invention will be further understood by reference to the detailed description that follows.

### **Brief Description of the Figures**

Figure 1 illustrates the communication exchange of the present invention.

Figure 2 illustrates the token purchase flow of the present invention.

Figure 3 illustrates the voting process and impact of the voting process.

Figure 4 illustrates the generalized architecture of the present invention.

Figure 5 Illustrates one of the preferred architectures of the present invention.

### **Detailed Description of the Invention**

As noted above, the present invention is a system and method for allowing a community of network users to influence the outcome of programming. Referring to **Figure 1**, the communication exchange of the present invention is illustrated. Network users register **10** with a network provider and request tokens that allow the network user to vote in any particular poll that the network user desires. The network provider provides the tokens **12** to the network users for subsequent use. As will be noted below, the number of tokens and the charge for those tokens are all made in the usual accounting that is known in the art and occurs with normal content systems such as cable television and the like. Content providers thereafter provide content **14** to network users for subsequent viewing. The network provider provides the various poll questions **16** to the network users for subsequent voting regarding the content. Additionally these polls may be inserted in-band into the program stream from the content provider, Network

1 users can then vote **18** by using the tokens that have been provided to the network users and will  
2 vote based upon the poll questions **16** that have been provided during the course of the content.  
3 That vote **18** is provided to the network provider that tallies the vote and provides the vote results  
4 **20** to the content provider for subsequent modification of the content. In addition, the poll  
5 results are separately provided **22** to the network users so that the network users can see how  
6 their respective community of network users voted on the particular poll in question. Longer  
7 duration polls **16** may be ongoing while feedback to network users **22** occurs so that each  
8 member of the community has visibility into the shared dynamic and the opportunity to  
9 contribute to or control the dynamics of the community based on response from other community  
10 members. This is a desirable feature when the members of the community are not in visual or  
11 aural communication with each other and provides a way to have many of the same responses  
12 and interactions as they would if they were in the same room. After the poll results had been  
13 made available to the content provider, the content provider then provides modified content **24** to  
14 the network users.

15 Referring to **Figure 2**, the token purchase flow of the present invention is illustrated. A  
16 network user, who may be a new network user on the network or an existing network user that  
17 simply wants to take advantage of the voting aspect of the present invention, registers with the  
18 network server **30**. The network user is then asked if the network user wishes to purchase tokens  
19 **32**. If the network user does wish to purchase tokens, the network user selects the number of  
20 tokens desired to be purchased **34**. Each of the tokens has a monetary value. Depending upon  
21 the number of tokens purchased, the total token purchase is credited to the network user's  
22 account **40** and the network server bills the network user for the tokens purchased **42** in the usual  
23 fashion for billing for network use. Alternatively, and without limitation, network users can

1 establish account with balances for the purchase of tokens, network users can be given tokens as  
2 incentives to use the system of the present invention thereby building loyalty, tokens can be won  
3 in a contest, tokens can be awarded based upon network user participation in other activities such  
4 as shopping, and other means.

5 If the network user does not desire to purchase multiple tokens, the network user is asked  
6 if the network user wants to purchase weighted tokens 36. Weighted tokens are individual  
7 tokens that carry a larger vote weight than other tokens. The network user can select from  
8 various token weight levels depending upon the interest that the network user has and the amount  
9 of money that the network user desires to spend. If the network user does desire to purchase  
10 weighted tokens, weighted tokens are purchased 38 and the network user's account is credited  
11 with the amount of tokens purchased 40. Again, the network user will be billed in the normal  
12 course for the tokens purchased 42.

13 If a network user does not desire to purchase any tokens, the network user simply  
14 answers no to all questions and the network user's account will not be credited with any voting  
15 tokens, nor will the network user be billed.

16 Thereafter, the network user is free to use the tokens during the course of any poll that is  
17 offered by the network as will be more fully explained below.

18 Referring to **Figure 3**, the voting process and impact of the voting process is illustrated.  
19 Network users view the content over the network 50. From time to time the network server of  
20 the present invention provides a poll to the network users 52 concerning various aspects of the  
21 content being shown. For example, if a live broadcast is being sent, the network users can be  
22 offered the ability to truncate interviews, move to a new topic, or other responses. In the event

1 that a pre-recorded program is being shown that has optional elements, the network users can be  
2 polled to determine what elements they would like to see next in the content being shown.

3       Thereafter, network users, who have a token balance in their accounts can vote based  
4 upon the poll being offered to the network users **54**. Network users can select the number of  
5 votes they wish to cast, and their selection with respect to the options offered. Alternatively, the  
6 poll can be structured, depending upon the desires of the content provider, to allow only one vote  
7 at a time by network users. The poll structure itself can be dictated by the content providers  
8 depending upon their desires for input and the ability of the content providers to modify the  
9 content being presented to the network users.

10       After an individual network user votes, the vote is recorded by the network server **56** and  
11 the vote or number of votes made by the particular network user is deducted from the network  
12 user account **58**. The server also tallies all of the votes **60**, and notifies the network users of the  
13 results of the vote **62**. In this fashion, a community of network users can determine how their  
14 vote in a particular poll was made and the impact of that vote. The server also sends the tally of  
15 the votes to the appropriate content provider. Thus, if a content provider has optional content  
16 that will be provided based upon the votes, that content provider is notified **64**. As another  
17 example, if a live studio feed is occurring, the server notes the tally of the votes to the live studio  
18 **66**. Additionally, other types of content providers may desire to have vote tallies for a variety of  
19 reasons that would affect further programming, production of additional segments, and other  
20 factors **68**. Based upon the votes made, the various content providers will modify the content  
21 being sent to the viewing audience and that content can be modified in real time or near real time  
22 and sent back to the network users who can then view that modified content **50**. In this fashion,

1 the network users can see how their votes have affected the actual content that is being provided  
2 to them.

3 Referring to **Figure 4**, the generalized architecture of the present invention is illustrated.  
4 Network users **70**, **72**, and **74** are connected to a network **76** to receive video content and polling  
5 requests. It should be noted that while three network users are indicated in this figure, this is not  
6 meant as a limitation. For example, and as is well known, there are literally thousands of  
7 network users on a cable network as well as network users who may potentially receive video  
8 over the Internet. Thus, the network **76** is illustrative of both a cable television network as is  
9 normally known, and may also in certain instances be the Internet or other media access network  
10 where network users are viewing video content or other applicable media assets over the Internet  
11 or media access network.

12 As discussed herein the network can be a typical centralized network with broadcast of  
13 content coming from a central location. Alternatively, the network could potentially be a  
14 distributed network where the poll server defines the scope of the community. For example a  
15 poll server could be placed in each regional data center and at a national data center so that  
16 certain polls and content are applicable to all subscribers attached to the network or to just a  
17 small set with one poll servers. Thus a plurality of poll servers at different places in the network,  
18 and also a plurality of poll servers that can communicate with a Master poll server for those polls  
19 and content are equally considered to be within the scope of the present invention.

20 The network server **78** connects to the network users **70**, **72**, and **74** and provides video  
21 content to those network users. Network users register with the network server **78** for the desired  
22 service in the usual fashion. However, the network user's can also register for voting tokens that  
23 are offered by the network server **78**. The network server may have its own content which it

1 provides to network users, but is also connected to certain live studios **82** which provide a live  
2 video feed to network users via the network server. The studio has its own schedule of events **92**  
3 which relates to the schedule within a particular show as well as the schedule over any particular  
4 period of time, whether it be day month or year. The network service also connected to other  
5 content providers **84** which may provide pre-recorded content to network users. In certain  
6 instances, the content provider **84** may have optional content **86**, which can be presented to  
7 network users depending upon the poll of the network users.

8 Similarly, other content providers **88** may also be connected to the server **78** and provide  
9 pre-recorded video content. For such providers, the polling of the present invention allows them  
10 to make future plans **90** for additional segments and/or productions that may be desired by the  
11 network users.

12 Depending upon the content that is provided by the various content providers **82**, **84**, and  
13 **88**, the content providers may wish to solicit an interaction from the individual network users by  
14 virtue of poll questions. The poll questions to be posed by the network server **78** are provided by  
15 the content providers to the network server. The network server stores the poll questions **80** and  
16 schedule those poll questions to be displayed to the network users **70**, **72**, and **74** during  
17 appropriate times associated with the individual content provider content. Thus, during a live  
18 studio broadcast from a studio content provider **82** poll questions associated with the live studio  
19 feed are retrieved from a poll question database **80** and provided by the network server **78** to the  
20 network users **70**, **72**, and **74**. The network users will then vote based upon the poll questions  
21 which vote will then be tallied by the network server **78**. The network server **78** will then inform  
22 the studio **82** of the results of the poll as well as charge the individual network user accounts for

the vote tokens used as noted earlier. Similarly, results from a different poll can inform content provider 84 as to which optional content 86 is to be fed to the network users.

Referring to **Figure 5** the overall architecture of the present invention is illustrated. Interactive devices **92,94,96, 98** all represent different types of devices that interact in the community polling of the present invention. Various interactive devices may be a television with interactive set top box **92**, home PC **94**, wireless laptop **96** or other wireless device **98** log onto the transaction server **100** of the present invention. These devices are not meant as a limitation. Any device now or in the future that has an interactive capability will be suitable for use with the present invention. The transaction server informs the poll server **106** that a valid user exists on the system and the amount of vote tokens that are possessed by the valid user. The poll server stores this information for subsequent voting by the users.

If the users desire to purchase tokens, an accounting server **102** accesses user accounts **104** for financial information that relates to the purchase of tokens, such as credit card access and other information allowing tokens to be purchased.

When a time for a polling takes place, users are informed of the polling via explicit coupling in the video stream or through other polling means. Thereafter users use their tokens to vote in a particular poll which vote is communicated to the poll server **106**. The poll server receives the votes of individual users and stores those poll results **108**. After all votes are taken, the poll server provides the vote tallies back to the users **92, 94, 96, 98** so that such clients can be informed of the poll results.

The system of the present invention also comprises a smart video server **112**.

This smart video server **112** receives programming from various sources which have been modified in response to the polling that has taken place. For example, live feeds **116** can be served over the smart video server **112** or archived video **114** can be served to users based upon the voting of the viewers. The programs and content are then sent to the television **120** or other device **92, 94, 96, 98**. It is important to note that while this diagram depicts video as the shared content, the actual content can be any form of communication such as audio, radio, or games all of which will be served to community of users. Poll meta data **110** that is information concerning the polls that are to be presented are provided to the poll server. This information can be the number of times and times of day that a particular poll is to be made and other information concerning the poll. Producer **118** provides information to the poll meta data database **110** concerning when any particular poll is to be served to users. Information concerning poll results from the poll results data base **108** are served to various sponsors for accounting purposes, and for planning future production. Such accounting functions are in order to report when particular polls have been played in order to report contract fulfillment. In addition, poll results **108** provide real time feedback to create new polls **120** which producer **118** can subsequently serve to the poll server **106**.

The system and method for influencing community shared elements of a broadcast via a polling system can be used in a variety of ways, such as talk shows (radio or TV), game shows (play along), court shows (you play the part of the judge), improv comedy, improv acting, food show, dare contest/candid camera, obstacle course where you can control dynamic obstacle placements, choose camera, choose character to trail,



1 interview, live act show, concert (song requests), radio station, live act contest, animal  
2 show, virtual government, behind the scenes, outtakes, director's cut, controlling order of  
3 news clips, controlling whether to expound upon the last news topic, controlling whether  
4 to expound upon any element before continued with the main narrative, ad selection,  
5 controlling point of sale commerce, controlling inventory volume, choosing camera  
6 angle, camera style/digital effect, concert, interview, travel show, filtering massive  
7 datastores of content into a network user-structured programming order, soap opera plot,  
8 series plot, movie plot, chat room topics, or control someone's daily life (AI/consensus  
9 generates options as the person goes about daily life). Environment aspects of gaming  
10 environments can be controlled by this system and method such as battles outcome, luck  
11 enhancement, skew natural event probability weights, skew AI event probability weights,  
12 or , balance of power in the universe. The effectors could be any of the following  
13 elements: camera angle, directorial style, camera effect, questions, answers, plot path,  
14 point of view, location/weather, aesthetics, objects in environment, luck/fate/chance  
15 probabilities, behavioral aspects over time.

16 As yet another embodiment of the present invention the server of the present  
17 invention allows the creation of a 'buddy list' for users whereby users can form a  
18 community-within- community (a "Sub-community"). Using the buddy list, individual  
19 users who are on one another's buddy list can view in real time how their sub-community  
20 is voting on any program. This further adds weight for the sub-community in its voting  
21 since, if the individuals are like-minded, they can vote as a block for the effect desired on  
22 the programming.

1           As part of the ability to vote as a block, the server of the present invention  
2 allows for a “pre-vote by the sub-community to see how like-minded the individuals  
3 really are. In this way the sub community can adjust its vote as desired to more fully  
4 affect the course of programming.

5           After voting has been completed, statistics are presented to both the community  
6 and the sub-community so that the voting trends of the group and subgroup can be  
7 viewed.

8           As part of the present invention network users responses and histories are saved  
9 to provide targeted advertising and programming. This could be accomplished by  
10 associating the typical demographic information with poll responses. Such advertising  
11 can be accomplished on an anonymous basis since the system of the present invention  
12 can target advertising at the community members without violating the privacy of the  
13 network users For example an abstracted unique identifier associated with a network  
14 user’s voting patterns with polls with questions that would lead advertisers to believe  
15 with high probability that the particular network user would want to buy their products.  
16 Advertisers could then choose the content of the polling questions that are indicative of  
17 network user preferences. Advertisers could then be offered (sold) polling opportunities  
18 for their questions in much the same way the advertising space is sold with the polling  
19 results made available to the advertiser purchasing the polling opportunity.

20           The present invention will also find utility in the world of on-line gaming. For  
21 example, in the shared gaming universe, the poll weighting can potentially affect multiple  
22 perspectives of the gaming universe, such that the changes affects different members of  
23 the community differently depending on their point of view within that gaming universe.

1           A system and method for influencing community shared elements of a broadcast  
2   via a polling system has been illustrated. It will be appreciated by those skilled in the art  
3   that other elements may be added to the system of the present invention without departing  
4   from the scope of the invention as disclosed.

5

1 Abstract of the Disclosure

2 A system and method for interactively affecting the course of a program or  
3 programming content. Viewer purchase electronic tokens which can be used to vote on  
4 the sequence of content in a broadcast whether it be audio, video or a combination  
5 thereof. Users are periodically polled by a server to vote on the direction that a broadcast  
6 is taking. The broadcast is then modified with real-time or stored content based upon the  
7 polling results from the viewers. Thus communities of voters have a chance to vote on  
8 the direction of content. The invention also allows sub-communities to be formed to pre-  
9 vote on a broadcast so that the sub-community can possible vote as a bloc on the  
10 direction and content of programming that is presented.

1 We claim:

2 1. A method for influencing dynamic community shared elements of content  
3 programming comprising:

4 a plurality of participants obtaining electronic votes that they may later cast;

5 a polling server periodically polling the plurality of participants over a network  
6 for their opinion concerning the content of programming;

7 the plurality of participants casting their respective electronic votes concerning  
8 the content of programming via the network;

9 the polling server receiving the electronic votes of the participants, tallying the  
10 electronic votes and reporting those results to a content server;

11 the content server receiving the votes and retrieving content based upon the  
12 opinion expressed by the majority of participants.

13 2. The method for influencing dynamic community shared elements of  
14 content programming of claim 1 wherein the content is selected from the group  
15 consisting of audio, video, on-line games and text.

16 3. The method for influencing dynamic community shared elements of  
17 content programming of claim 1 wherein the content is created in real time.

18 4. The method for influencing dynamic community shared elements of  
19 content programming of claim 1 wherein the content is stored content.

20 5. The method for influencing dynamic community shared elements of  
21 content programming of claim 1 wherein obtaining electronic votes comprises the  
22 participants purchasing the electronic votes over the network.

1           6.       The method for influencing dynamic community shared elements of  
2 content programming of claim 1 wherein the obtaining electronic votes comprises the  
3 participants being given the electronic votes.

4           7.       The method for influencing dynamic community shared elements of  
5 content programming of claim 1 wherein the obtaining electronic votes comprises the  
6 participants purchase electronic votes of differing values per vote over the network.

7           8.       The method for influencing dynamic community shared elements of  
8 content programming of claim 1 further comprising the polling server providing the  
9 results of the electronic votes cast by the participants over the network.

10          9.       The method for influencing dynamic community shared elements of  
11 content programming of claim 1 further comprising the plurality of participants forming  
12 sub-communities of participants for voting purposes.

13          10.      The method for influencing dynamic community shared elements of  
14 content programming of claim 9 further comprising the sub communities pre-voting over  
15 the network to determine the direction of the sub-communities voting.

16          11.      The method for influencing dynamic community shared elements of  
17 content programming of claim 1 further comprising the polling server reporting to the  
18 sub-community the results of the sub-community's voting over the network.

19          12.      The method for influencing dynamic community shared elements of  
20 content programming of claim 1 wherein the network is the Internet

21          13.      The method for influencing dynamic community shared elements of  
22 content programming of claim 1 wherein the network is a cable TV network

1           14.     The method for influencing dynamic community shared elements of  
2 content programming of claim 1 wherein the network is an RF network.

3           15.     The method for influencing dynamic community shared elements of  
4 content programming of claim 1 wherein the network comprises a wired network and a  
5 wireless network, and wherein the participant vote vie the wireless network.

6           16.     A system for influencing dynamic community shared elements of content  
7 programming comprising:

8           a plurality of participant devices each associated with a participant connected to a  
9 network, the participant devices further comprising instructions for obtaining and casting  
10 electronic votes;

11           a transaction server connected to the network further comprising instructions for  
12 receiving requests from the participant devices to obtain electronic votes, and instructions  
13 for delivering electronic votes to the participant devices over the network;

14           a polling server connected to the network for receiving the electronic votes from  
15 the participant devices in response to polls server by the polling server;

16           the polling server further comprising instructions for receiving and tallying the  
17 electronic votes received from the participant devices, and reporting the tally; and

18           a content server connected to the polling server for receiving the tally of the  
19 electronic votes, the content server further comprising instructions for modifying content  
20 served to the participant devices in response to the tally of electronic votes.

21           17.     The system for influencing dynamic community shared elements of  
22 content programming of claim 16 wherein the content is selected from the group  
23 consisting of audio, video, online games and text.

1           18.     The system for influencing dynamic community shared elements of  
2 content programming of claim 16 wherein the content is created in real time.

3           19.     The system for influencing dynamic community shared elements of  
4 content programming of claim 16 wherein the content is stored content.

5           20.     The system for influencing dynamic community shared elements of  
6 content programming of claim 16 wherein the electronic votes are purchased by the  
7 participant via the participant device by the transaction server over the network.

8           21.     The system for influencing dynamic community shared elements of  
9 content programming of claim 16 wherein the electronic votes are given to the participant  
10 devices by the transaction server over the network.

11          22.     The system for influencing dynamic community shared elements of  
12 content programming of claim 16 wherein the electronic votes comprise votes of different  
13 values.

14          23.     The system for influencing dynamic community shared elements of  
15 content programming of claim 16 wherein participant devices further comprise  
16 instructions for casting the electronic votes in response to a poll served by the polling  
17 server.

18          24.     The system for influencing dynamic community shared elements of  
19 content programming of claim 16 wherein the polling server further comprises  
20 instructions for reporting the results of the voting to the participant devices over the  
21 network.

22          25.     The system for influencing dynamic community shared elements of  
23 content programming of claim 16 wherein the polling server further comprises



1 instructions for receiving requests from participant devices to form a sub-community of  
2 participant devices.

3 26. The system for influencing dynamic community shared elements of  
4 content programming of claim 25 wherein the polling server further comprises  
5 instructions for permitting a pre-vote of the sub-community on a given poll.

6 27. The system for influencing dynamic community shared elements of  
7 content programming of claim 26 wherein the polling server further comprises  
8 instructions for reporting the sub-community vote to the participant devices of the sub-  
9 community.

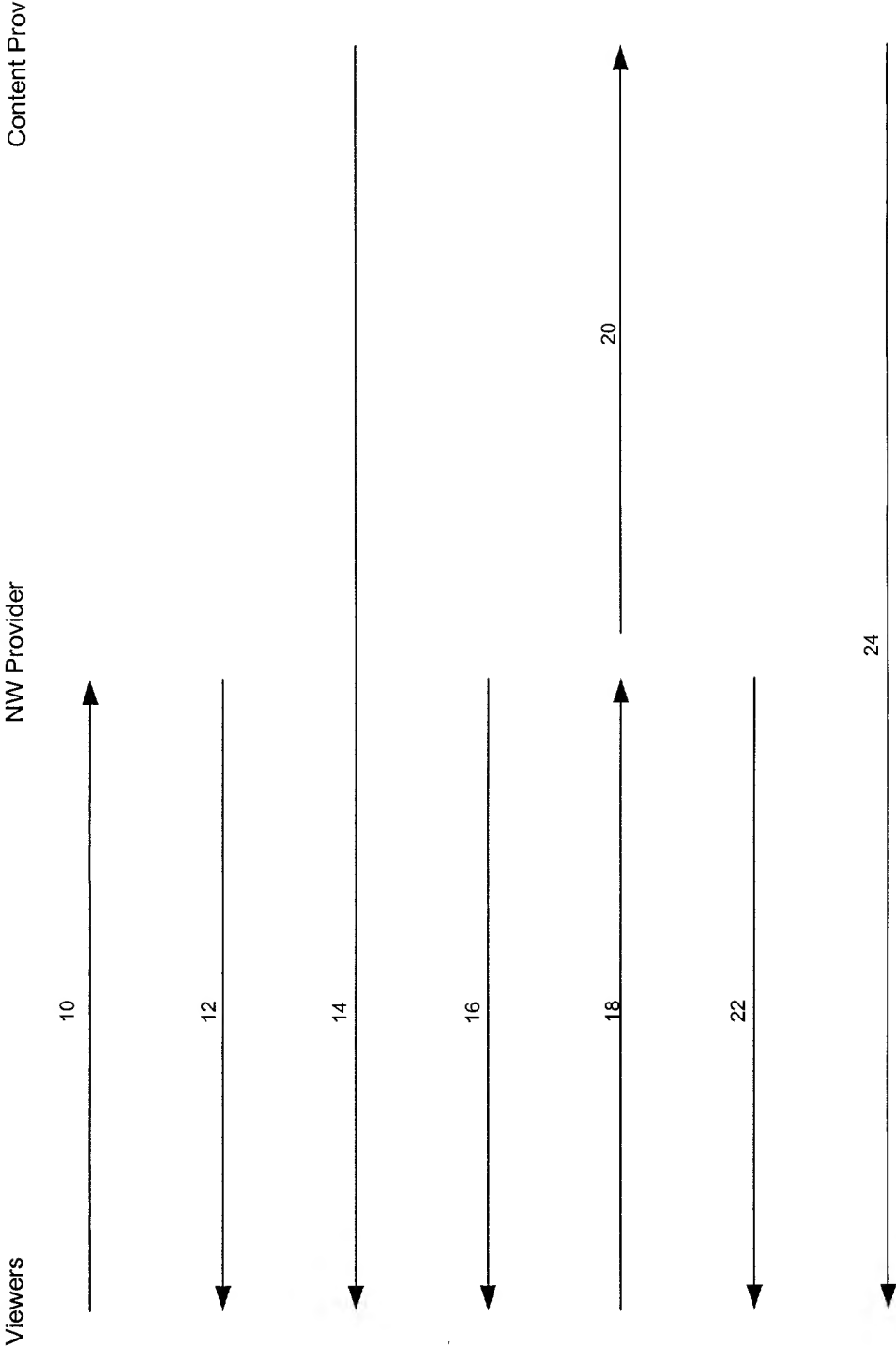
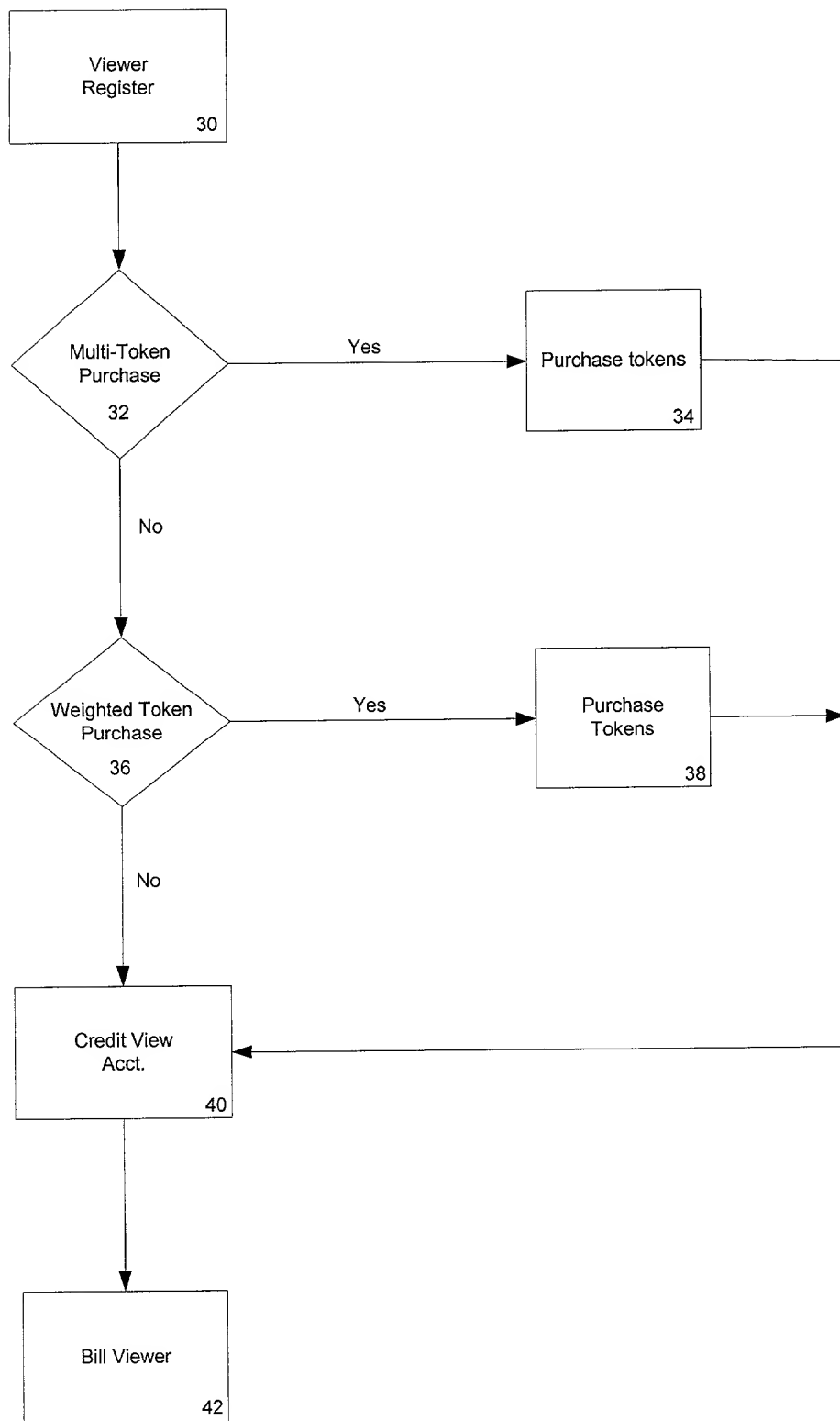
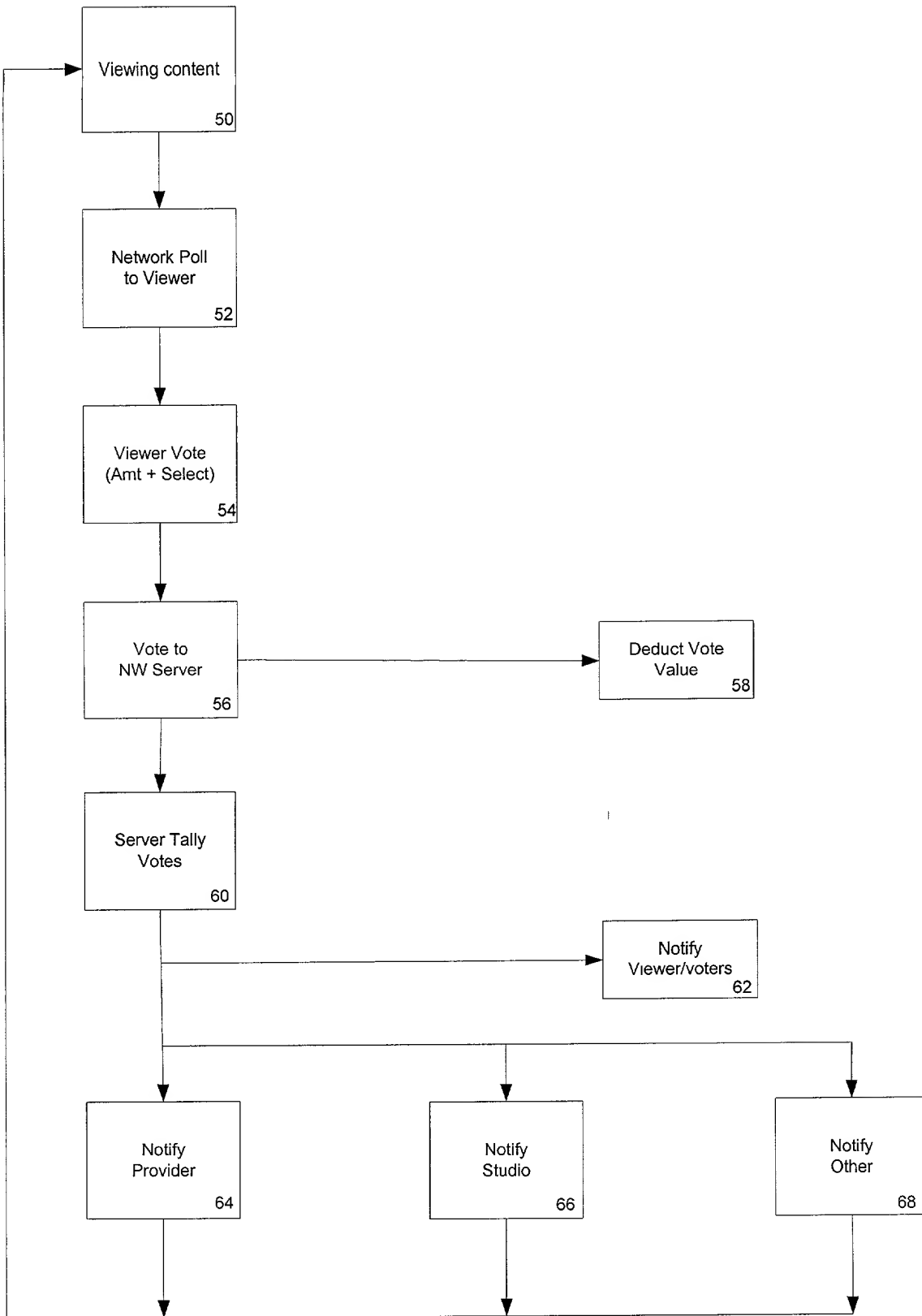


Fig. 1

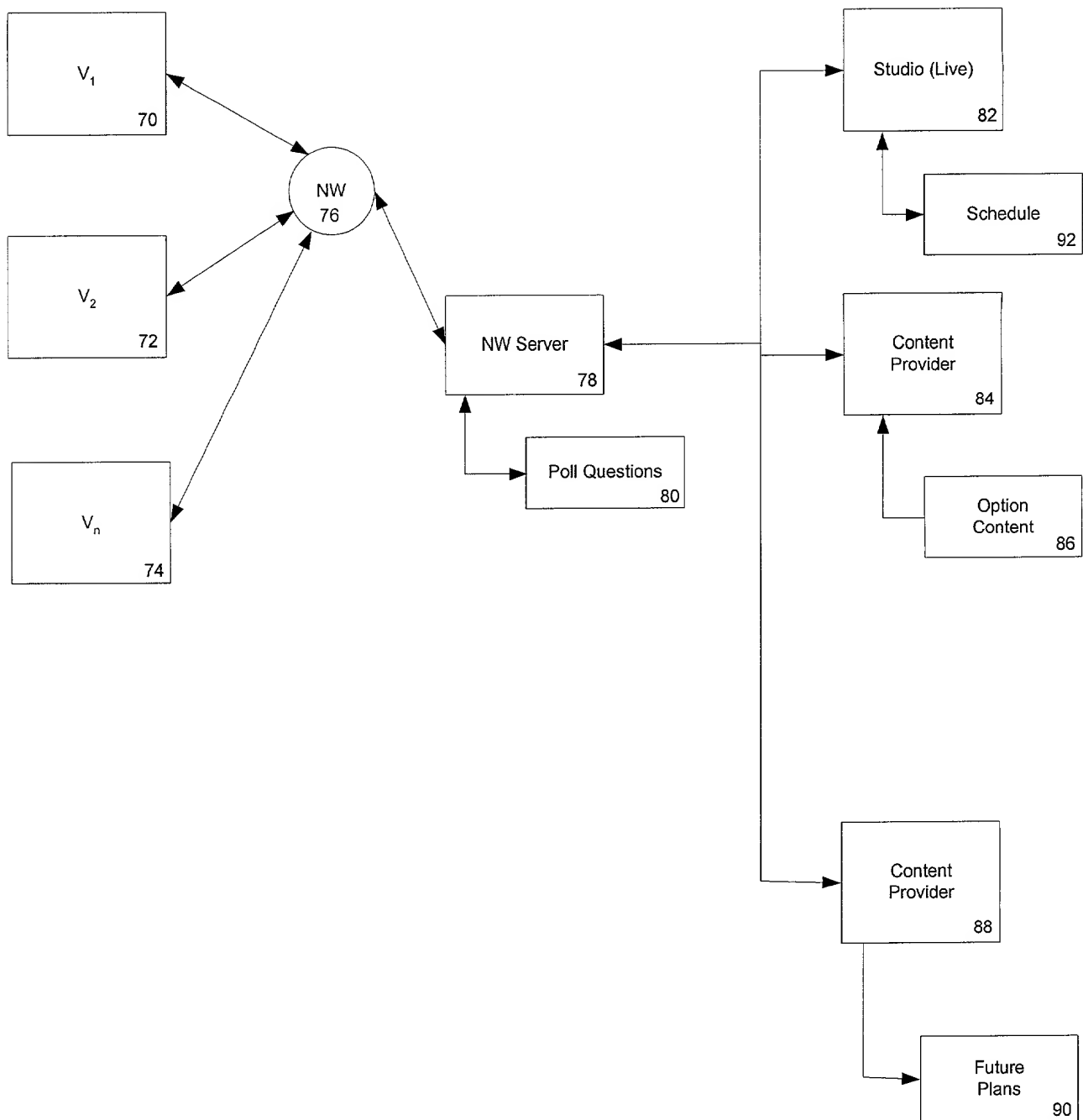


**Fig. 2**



**Fig. 3**

Fig. 4 is a block diagram of a network architecture for a live studio session. The architecture includes a central network (NW) 76, a network server (NW Server) 78, and a network of video cameras (V<sub>1</sub> 70, V<sub>2</sub> 72, V<sub>n</sub> 74). The NW 76 is connected to the NW Server 78 and the video cameras. The NW Server 78 is connected to a Poll Questions module 80 and a Content Provider 84. The Content Provider 84 is connected to a Studio (Live) 82 and a Content Provider 88. The Studio (Live) 82 is connected to a Schedule module 92. The Content Provider 88 is connected to a Future Plans module 90. The Content Provider 84 is also connected to an Option Content module 86.



**Fig. 4**

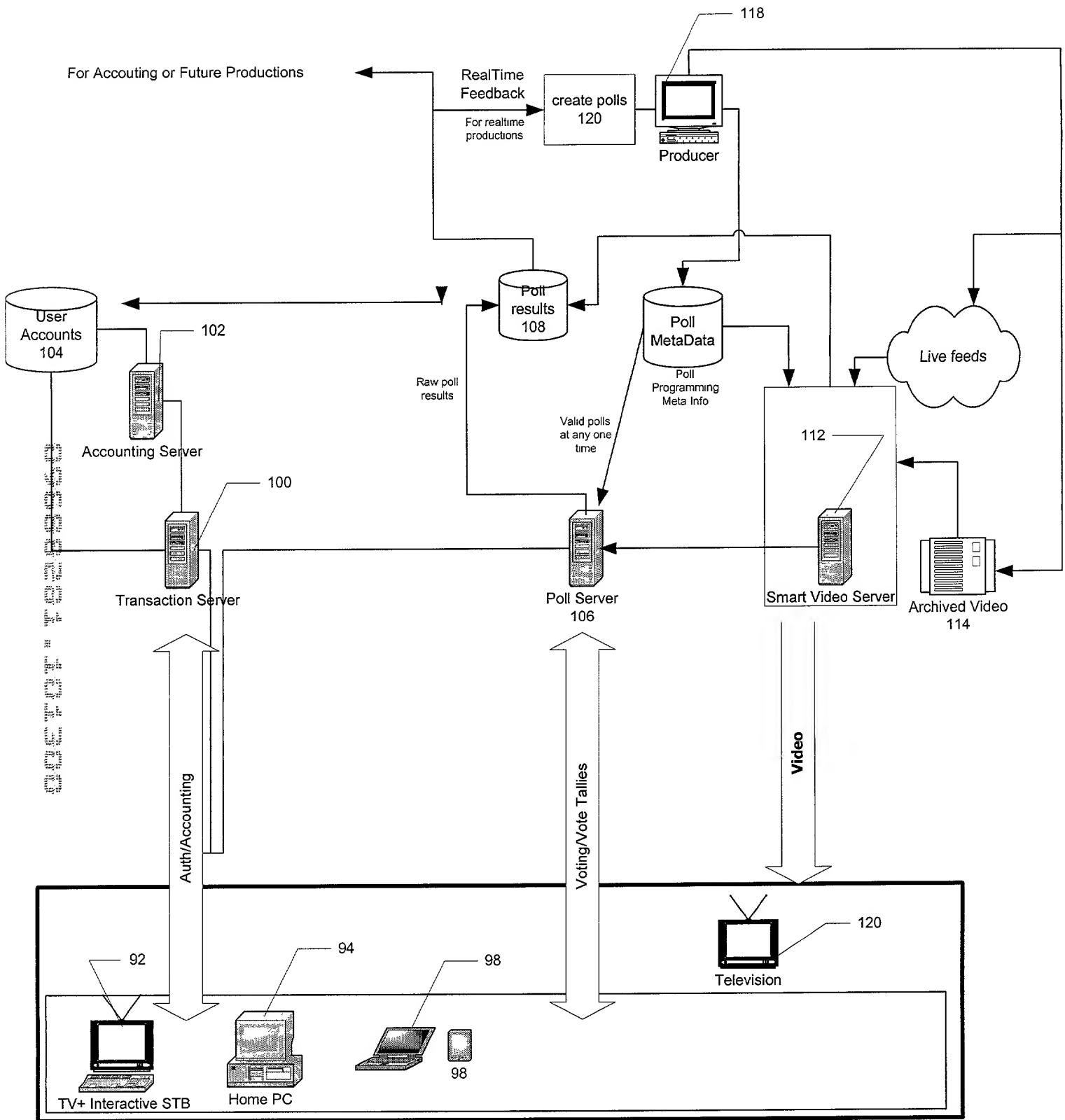


Figure 5

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of Frederick J. Oko Jr. and Qiyue Sun  
Serial No.: Not Yet Assigned      Group Art Unit:  
Filed: Herewith      Examiner:

**FOR: SYSTEM AND METHOD FOR INFLUENCING DYNAMIC COMMUNITY  
SHARED ELEMENTS OF AUDIO, VIDEO, AND TEXT PROGRAMMING VIA A  
POLLING SYSTEM**

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As below inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **SYSTEM AND METHOD FOR INFLUENCING DYNAMIC COMMUNITY SHARED ELEMENTS OF AUDIO, VIDEO, AND TEXT PROGRAMMING VIA A POLLING SYSTEM**, the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

We hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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We declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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